



**Rules and
Regulations
for the
Classification of
Mobile Offshore Units,
June 2013**

Notice No. 1

Effective Date of Latest
Amendments:

See page 1

Issue date: December 2013

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RULES AND REGULATIONS FOR THE CLASSIFICATION OF MOBILE OFFSHORE UNITS, *June 2013*

Notice No. 1

This Notice contains amendments within the following Sections of the *Rules and Regulations for the Classification of Mobile Offshore Units, June 2013*. The amendments are effective on the dates shown:

| <i>Part</i> | <i>Chapter</i> | <i>Section</i> | <i>Effective date</i> |
|--------------------|-----------------------|-----------------------|----------------------------------|
| 1 | 2 | 2 | Corrigendum |
| 1 | 3 | 2 | Corrigendum |
| 3 | Contents | Chapter 14 | Corrigendum |
| 3 | 13 | 1 | Corrigendum |
| 4 | 6 | 2, 4, 7, 9 | Corrigenda |

It will be noted that the amendments also include corrigenda, which are effective from the date of this Notice.

The *Rules and Regulations for the Classification of Mobile Offshore Units, June 2013* are to be read in conjunction with this Notice No. 1. The status of the Rules is now:

Rules for Mobile Offshore Units
Notice No. 1

Effective date: June 2013
Effective date: Corrigenda

Part 1, Chapter 2

Classification Regulations

CORRIGENDUM

■ Section 2

Definitions, character of classification and class notations

2.4 Class notations (hull/structure)

2.4.13 The following special features class notations may be assigned as considered appropriate by the Classification Committee:

PPF This notation will be assigned to units which have specialised structures and an installed process plant facility which has been constructed, installed and tested under LR's Special Survey and in accordance with LR's Rules and Regulations, see Pt 3, Ch 8.

DRILL This notation will be assigned to units which have specialised structures and an installed drilling plant facility which has been constructed, installed and tested under LR's Special Survey and in accordance with LR's Rules and Regulations, see Pt 3, Ch 7.

DROPS This notation will be assigned to units which have preventive measures to protect personnel from the hazards of dropped objects in accordance with Pt 3, Ch 7,1 Ch 7,10.

PRS This notation will be assigned to units which have a product riser system which has been constructed, installed and tested under LR's Special Survey, in accordance with LR's Rules, see Pt 3, Ch 12.

OIWS This notation for In-Water Survey may be assigned to a unit where the applicable requirements of LR's Rules and Regulations are complied with, see Pt 1, Ch 3,4.3, Pt 3, Ch 1,2.1.3 and Pt 8, Ch 1,1.3.

Part 1, Chapter 3

Periodical Survey Regulations

CORRIGENDUM

■ Section 2

Annual Surveys – Hull and machinery requirements

2.2 Structure and equipment

2.2.16 The Survey requirements for sea bed-stabilised units will be specially considered, but the requirements for column-stabilised and self-elevating units are to be ~~complied~~ **complied** with as applicable.

Part 3, Contents

CORRIGENDUM

| | | |
|-------------|-------------------|---|
| PART | 3 | FUNCTIONAL UNIT TYPES AND SPECIAL FEATURES |
| | Chapter 1 | General Requirements for Offshore Units |
| | 2 | Drilling Units |
| | 3 | Production and Oil Storage Units |
| | 4 | Accommodation and Support Units |
| | 5 | Fire-fighting Units |
| | 6 | Units for Transit and Operation in Ice |
| | 7 | Drilling Plant Facility |
| | 8 | Process Plant Facility |
| | 9 | Dynamic Positioning Systems |
| | 10 | Positional Mooring Systems |
| | 11 | Lifting Appliances and Support Arrangements |
| | 12 | Riser Systems |
| | 13 | Wind Turbine Installation and Maintenance Vessels and Liftboats |
| | 14 | Integrated Software Intensive System – ‘ISIS’ notation |
| | Appendix A | Codes, Standards and Equipment Categories |
| | Appendix B | Guidelines on the Inspection of Positional Mooring Systems |
| | Appendix C | Guidelines on Scope of Survey Certification of Safety Critical Equipment |

Part 3, Chapter 13

Wind Turbine Installations and Maintenance Vessels and Lifeboats

CORRIGENDUM

■ Section 1 General

1.7 Survey

1.7.2 In general, where a classed or certified lifting appliance is fitted to a classed unit, the survey requirements of the lifting appliance are to be in accordance with ~~Chapter 9~~ Chapter 12 of LR's LAME and Part E, Ch 8 of LR's ~~Marine Survey Procedures Manual~~.

Part 4, Chapter 6

Local Strength

CORRIGENDA

■ Section 2

Design heads

2.3 Stowage rate and design heads

Table 6.2.1 Design heads and permissible deck loadings (SI units) (Part only shown)

| Structural item and position | Standard stowage rate C , in m^3/tonne | Design loading p , in kN/m^2 | Equivalent design head h_i in metres | Equivalent permissible head, in metres |
|---|--|--|--|--|
| 1. All units except surface type units | | | | |
| (a) Weather decks | — | — | h_1 | — |
| (b) Loading for minimum scantlings | | | | |
| (i) Exposed deck | 1,39 | $9,0 + 14,41E$ | $1,2 + 2,04E$ $1,28 + 2,04E$ | $1,2$ $1,28$ |
| (c) Specified deck loading | | | | |
| (i) Exposed deck | 1,39 | $p_a + 14,41E$ but not less than (a) above | $0,14p_a + 2,04E$ | $0,14p_a$ |
| 2. Other decks | | | | |
| (a) Loading for minimum scantlings | | | | |
| (i) Work areas | 1,39 | 9,0 | h_2 $1,28$ | — |
| (ii) Storage areas | 1,39 | 14,13 | h_3 $2,0$ | — |
| (iii) Decks forming crown of deep tanks | C | $\frac{9,82h}{C}$ $\frac{9,82h}{C}$ (see Note 2) | h_4 h (see Note 2) | — |
| (iv) Accommodation decks | 1,39 | 8,5 | h_5 $1,2$ | — |
| (b) Specified deck loading | | | | |
| (i) All areas | 1,39 | $p_a + 14,41E$ but not less than (a) above | h_2, h_3, h_5 $0,14p_a$ | — |
| (c) Superstructure decks (see Note 3) | | | h_6 | |
| (i) 1st tier | — | — | 0,9 | (see Note 4) |
| (ii) 2nd tier | | | 0,6 | |
| (iii) 3rd tier and above | | | 0,45 | |
| (d) Walkways and access areas | 1,39 | 4,5 | h_7 $0,64$ | — |
| 3. Watertight bulkheads | 0,975 | $10,07h_4$ | h_4 | see Table 6.7.1 |
| 4. Deep tank bulkheads | C but $\leq 0,975$ | $\frac{9,82h_4}{C}$ | h_4 | see Table 6.7.1 |

Table 6.2.1 Design heads and permissible deck loadings (metric units) (Part only shown)

| Structural item and position | Standard stowage rate C , in m^3/tonne | Design loading p , in $\text{tonne-f}/\text{m}^2$ | Equivalent design head h_i in metres | Equivalent permissible head, in metres |
|---|--|---|--|---|
| 1. All units except surface type units | | | | |
| (a) Weather decks | — | — | h_1 | — |
| (b) Loading for minimum scantlings | | | | |
| (i) Exposed deck | 1,39 | $0,92 + 1,467E$ | $1,28 + 2,04E$ | 1,28 |
| (c) Specified deck loading | | | | |
| (i) Exposed deck | 1,39 | $p_a + 1,467E$ but not less than (a) above | $1,39p_a + 2,04E$ $1,4p_a + 2,04E$ | $1,39p_a$ $1,4p_a$ |
| 2. Other decks | | | | |
| (a) Loading for minimum scantlings | | | | |
| (i) Work areas | 1,39 | 0,92 | h_2 1,28 | — |
| (ii) Storage areas | 1,39 | 1,44 | h_3 2,0 | — |
| (iii) Decks forming crown of deep tanks | C | $\frac{h}{C}$ (see Note 2) | h_4 h (see Note 2) | — |
| (iv) Accommodation decks | 1,39 | 0,865 | h_5 1,2 | — |
| (b) Specified deck loading | | | | |
| (i) All areas | 1,39 | $p_a + 1,467E$ but not less than (a) above | h_2, h_3, h_5 $1,39p_a$ $0,14p_a$ | — |
| (c) Superstructure decks (see Note 3) | | | h_6 | |
| (i) 1st tier | — | — | 0,9 | (see Note 4) |
| (ii) 2nd tier | | | 0,6 | |
| (iii) 3rd tier and above | | | 0,45 | |
| (d) Walkways and access areas | 1,39 | 0,46 | h_7 0,64 | — |

Part 4, Chapter 6

Section 4
Decks

4.4 Deck supporting structure

(Part only shown)

Table 6.4.4 Pillars

| Symbols | Parameter | Requirement |
|---------|---|---|
| | (2) Minimum wall thickness of tubular pillars | The greatest of the following: (a) $t = \frac{P}{0,392d_p - 4,9l_e}$ mm <div>$\frac{P}{0,392d_p - 4,9l_e}$</div> $\left(t = \frac{P}{0,04d_p - 0,5l_e} \text{ mm} \right)$ (b) $t = \frac{d_p}{40}$ mm (c) $t = 5,5$ mm where $L < 90$ m, or $= 7,5$ mm where $L \geq 90$ m |

Section 7
Bulkheads

7.3 Watertight and deep tank bulkheads

(Part only shown)

Table 6.7.3 Bulkhead end constraint factors (see continuation)

| Type | End connection, see Fig. 6.7.1 | | ω | e | μ |
|--|--|---|--|---------------------------------|--|
| Symmetrical corrugations or double plate bulkheads | | | | | |
| 12 | Welded directly to tank top and effectively supported by floors in line with each bulkhead flange, see also Note 2 | Thickness at bottom same as that at mid-span | The least of $\frac{\delta t_f}{t_m}$ or $\frac{\delta t_e}{t_m}$ or 1,0 | 0 | — |
| 13 | | Thickness at bottom greater than that at mid-span | The least of $\frac{\delta t_f}{t_m}$ or $\frac{\delta t_e}{t_m}$ or 1,0 | The lesser of αl or a | <div>The least of $\frac{\delta t_f}{t_m}$ or $\frac{\delta t_e}{t_m}$ or 1,0</div> <div>The lesser of $\frac{t_f}{t_m}$ or $\frac{t_e}{t_m}$</div> |



Section 9

Superstructures and deckhouses

9.5 Bulkhead plating and stiffeners

9.5.1 The plating thickness, t , of fronts, sides and aft ends of all erections other than the sides of the superstructures where these are an extension of the side shell, is not to be less than:

$$t = 0,003s \sqrt{k h} \text{ mm,}$$

but in no case is the thickness to be less than:

(a) for the lowest tier:

$$t = (5,0 + 0,01L_3) \sqrt{k} \text{ mm,}$$

but not less than 5,0 mm.

(b) for the upper tiers:

$$t = (4,0 + 0,01L_3) \sqrt{k} \text{ mm,}$$

but not less than 5,0mm.

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